



Design Formation Top Editor - Bailey 8-8-1/Directional Plans/S Curve #1

	MD (ft)	TVD WH (ft)	TVD Sys (ft)	TVD Path (ft)	Name	Lithology	Dip (°)
1	4486.3	4386.0	-609.0	4386.0	Sussex	(none)	0.00
2	5080.5	4961.0	-34.0	4961.0	Shannon	(none)	0.00
3	7551.8	7381.0	2386.0	7381.0	Niobrara	(none)	0.00
4	8316.8	8146.0	3151.0	8146.0	J Sand	(none)	0.00
5	8466.8	8296.0	3301.0	8296.0	TD	(none)	0.00
6							

Surface location: 874' FSL, 1096' FEL

Bottomhole location: 50' FSL, 50' FEL

EnCana Oil & Gas (USA)  
Bailey 8-8-1



COGCC  
MAY -1, 07



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**Planning Report - Geographic**

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<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Bailey 8-8-1
<b>Company:</b>	DJ/Paradox	<b>TVD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Project:</b>	DJ Basin	<b>MD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Site:</b>	New Drills 2007	<b>North Reference:</b>	True
<b>Well:</b>	Bailey 8-8-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Directional Plans		
<b>Design:</b>	S Curve #1		

<b>Project</b>	DJ Basin		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

<b>Site</b>	New Drills 2007				
<b>Site Position:</b>		<b>Northing:</b>	551,649.29 m	<b>Latitude:</b>	40° 3' 21.888 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	952,002.50 m	<b>Longitude:</b>	105° 3' 33.660 W
<b>Position Uncertainty:</b>	ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.28 °

<b>Well</b>	Bailey 8-8-1					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	553,799.08 m	<b>Latitude:</b>	40° 4' 31.584 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	951,990.37 m	<b>Longitude:</b>	105° 3' 33.732 W
<b>Position Uncertainty</b>		ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,980.0 ft

<b>Wellbore</b>	Directional Plans				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	02/07/2007	9.55	66.89	53,397

<b>Design</b>	S Curve #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	128.84

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	128.84	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	128.84	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,630.8	14.62	128.84	1,622.9	-58.1	72.2	2.00	2.00	0.00	128.84	
6,421.0	14.62	128.84	6,258.1	-816.2	1,013.7	0.00	0.00	0.00	0.00	
7,151.8	0.00	128.84	6,981.0	-874.3	1,086.0	2.00	-2.00	0.00	180.00	
8,466.8	0.00	128.84	8,296.0	-874.3	1,086.0	0.00	0.00	0.00	0.00	BHL 8-8-1

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<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Bailey 8-8-1
<b>Company:</b>	DJ/Paradox	<b>TVD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Project:</b>	DJ Basin	<b>MD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Site:</b>	New Drills 2007	<b>North Reference:</b>	True
<b>Well:</b>	Bailey 8-8-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Directional Plans		
<b>Design:</b>	S Curve #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (m)	Map Easting (m)	Latitude	Longitude
0.0	0.00	128.84	0.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
100.0	0.00	128.84	100.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
200.0	0.00	128.84	200.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
300.0	0.00	128.84	300.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
400.0	0.00	128.84	400.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
500.0	0.00	128.84	500.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
600.0	0.00	128.84	600.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
700.0	0.00	128.84	700.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
800.0	0.00	128.84	800.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
900.0	0.00	128.84	900.0	0.0	0.0	553,799.08	951,990.37	40° 4' 31.584 N	105° 3' 33.732 W
1,000.0	2.00	128.84	1,000.0	-1.1	1.4	553,798.75	951,990.78	40° 4' 31.573 N	105° 3' 33.715 W
1,100.0	4.00	128.84	1,099.8	-4.4	5.4	553,797.75	951,992.03	40° 4' 31.541 N	105° 3' 33.662 W
1,200.0	6.00	128.84	1,199.5	-9.8	12.2	553,796.10	951,994.11	40° 4' 31.487 N	105° 3' 33.575 W
1,300.0	8.00	128.84	1,298.7	-17.5	21.7	553,793.78	951,997.01	40° 4' 31.411 N	105° 3' 33.453 W
1,400.0	10.00	128.84	1,397.5	-27.3	33.9	553,790.81	952,000.74	40° 4' 31.314 N	105° 3' 33.296 W
1,500.0	12.00	128.84	1,495.6	-39.3	48.8	553,787.19	952,005.29	40° 4' 31.196 N	105° 3' 33.105 W
1,600.0	14.00	128.84	1,593.1	-53.4	66.3	553,782.91	952,010.65	40° 4' 31.057 N	105° 3' 32.879 W
1,630.8	14.62	128.84	1,622.9	-58.1	72.2	553,781.46	952,012.46	40° 4' 31.009 N	105° 3' 32.803 W
1,700.0	14.62	128.84	1,689.9	-69.1	85.8	553,778.15	952,016.62	40° 4' 30.901 N	105° 3' 32.628 W
1,800.0	14.62	128.84	1,786.6	-84.9	105.5	553,773.35	952,022.64	40° 4' 30.745 N	105° 3' 32.375 W
1,900.0	14.62	128.84	1,883.4	-100.7	125.1	553,768.56	952,028.65	40° 4' 30.588 N	105° 3' 32.123 W
2,000.0	14.62	128.84	1,980.2	-116.6	144.8	553,763.76	952,034.67	40° 4' 30.432 N	105° 3' 31.870 W
2,100.0	14.62	128.84	2,076.9	-132.4	164.4	553,758.97	952,040.68	40° 4' 30.276 N	105° 3' 31.617 W
2,200.0	14.62	128.84	2,173.7	-148.2	184.1	553,754.18	952,046.70	40° 4' 30.119 N	105° 3' 31.364 W
2,300.0	14.62	128.84	2,270.4	-164.0	203.7	553,749.38	952,052.71	40° 4' 29.963 N	105° 3' 31.111 W
2,400.0	14.62	128.84	2,367.2	-179.9	223.4	553,744.59	952,058.72	40° 4' 29.807 N	105° 3' 30.858 W
2,500.0	14.62	128.84	2,464.0	-195.7	243.1	553,739.79	952,064.74	40° 4' 29.650 N	105° 3' 30.606 W
2,600.0	14.62	128.84	2,560.7	-211.5	262.7	553,735.00	952,070.75	40° 4' 29.494 N	105° 3' 30.353 W
2,700.0	14.62	128.84	2,657.5	-227.3	282.4	553,730.20	952,076.77	40° 4' 29.337 N	105° 3' 30.100 W
2,800.0	14.62	128.84	2,754.3	-243.2	302.0	553,725.41	952,082.78	40° 4' 29.181 N	105° 3' 29.847 W
2,900.0	14.62	128.84	2,851.0	-259.0	321.7	553,720.61	952,088.80	40° 4' 29.025 N	105° 3' 29.594 W
3,000.0	14.62	128.84	2,947.8	-274.8	341.3	553,715.82	952,094.81	40° 4' 28.868 N	105° 3' 29.342 W
3,100.0	14.62	128.84	3,044.6	-290.6	361.0	553,711.03	952,100.83	40° 4' 28.712 N	105° 3' 29.089 W
3,200.0	14.62	128.84	3,141.3	-306.5	380.6	553,706.23	952,106.84	40° 4' 28.556 N	105° 3' 28.836 W
3,300.0	14.62	128.84	3,238.1	-322.3	400.3	553,701.44	952,112.85	40° 4' 28.399 N	105° 3' 28.583 W
3,400.0	14.62	128.84	3,334.8	-338.1	420.0	553,696.64	952,118.87	40° 4' 28.243 N	105° 3' 28.330 W
3,500.0	14.62	128.84	3,431.6	-353.9	439.6	553,691.85	952,124.88	40° 4' 28.086 N	105° 3' 28.077 W
3,600.0	14.62	128.84	3,528.4	-369.8	459.3	553,687.05	952,130.90	40° 4' 27.930 N	105° 3' 27.825 W
3,700.0	14.62	128.84	3,625.1	-385.6	478.9	553,682.26	952,136.91	40° 4' 27.774 N	105° 3' 27.572 W
3,800.0	14.62	128.84	3,721.9	-401.4	498.6	553,677.46	952,142.93	40° 4' 27.617 N	105° 3' 27.319 W
3,900.0	14.62	128.84	3,818.7	-417.2	518.2	553,672.67	952,148.94	40° 4' 27.461 N	105° 3' 27.066 W
4,000.0	14.62	128.84	3,915.4	-433.1	537.9	553,667.88	952,154.95	40° 4' 27.305 N	105° 3' 26.813 W
4,100.0	14.62	128.84	4,012.2	-448.9	557.5	553,663.08	952,160.97	40° 4' 27.148 N	105° 3' 26.561 W
4,200.0	14.62	128.84	4,109.0	-464.7	577.2	553,658.29	952,166.98	40° 4' 26.992 N	105° 3' 26.308 W
4,300.0	14.62	128.84	4,205.7	-480.5	596.9	553,653.49	952,173.00	40° 4' 26.835 N	105° 3' 26.055 W
4,400.0	14.62	128.84	4,302.5	-496.4	616.5	553,648.70	952,179.01	40° 4' 26.679 N	105° 3' 25.802 W
4,486.3	14.62	128.84	4,386.0	-510.0	633.5	553,644.56	952,184.20	40° 4' 26.544 N	105° 3' 25.584 W
<b>Sussex</b>									
4,500.0	14.62	128.84	4,399.2	-512.2	636.2	553,643.90	952,185.03	40° 4' 26.523 N	105° 3' 25.549 W
4,600.0	14.62	128.84	4,496.0	-528.0	655.8	553,639.11	952,191.04	40° 4' 26.366 N	105° 3' 25.297 W
4,700.0	14.62	128.84	4,592.8	-543.8	675.5	553,634.31	952,197.05	40° 4' 26.210 N	105° 3' 25.044 W
4,800.0	14.62	128.84	4,689.5	-559.7	695.1	553,629.52	952,203.07	40° 4' 26.053 N	105° 3' 24.791 W
4,900.0	14.62	128.84	4,786.3	-575.5	714.8	553,624.73	952,209.08	40° 4' 25.897 N	105° 3' 24.538 W
5,000.0	14.62	128.84	4,883.1	-591.3	734.4	553,619.93	952,215.10	40° 4' 25.741 N	105° 3' 24.285 W

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<b>Company:</b>	DJ/Paradox	<b>TVD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Project:</b>	DJ Basin	<b>MD Reference:</b>	WELL @ 4995.0ft (Original Well Elev)
<b>Site:</b>	New Drills 2007	<b>North Reference:</b>	True
<b>Well:</b>	Bailey 8-8-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Directional Plans		
<b>Design:</b>	S Curve #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (m)	Map Easting (m)	Latitude	Longitude	
5,080.5	14.62	128.84	4,961.0	-604.1	750.3	553,616.07	952,219.94	40° 4' 25.615 N	105° 3' 24.082 W	
<b>Shannon</b>										
5,100.0	14.62	128.84	4,979.8	-607.2	754.1	553,615.14	952,221.11	40° 4' 25.584 N	105° 3' 24.032 W	
5,200.0	14.62	128.84	5,076.6	-623.0	773.8	553,610.34	952,227.13	40° 4' 25.428 N	105° 3' 23.780 W	
5,300.0	14.62	128.84	5,173.4	-638.8	793.4	553,605.55	952,233.14	40° 4' 25.272 N	105° 3' 23.527 W	
5,400.0	14.62	128.84	5,270.1	-654.6	813.1	553,600.75	952,239.15	40° 4' 25.115 N	105° 3' 23.274 W	
5,500.0	14.62	128.84	5,366.9	-670.5	832.7	553,595.96	952,245.17	40° 4' 24.959 N	105° 3' 23.021 W	
5,600.0	14.62	128.84	5,463.6	-686.3	852.4	553,591.16	952,251.18	40° 4' 24.802 N	105° 3' 22.768 W	
5,700.0	14.62	128.84	5,560.4	-702.1	872.0	553,586.37	952,257.20	40° 4' 24.646 N	105° 3' 22.516 W	
5,800.0	14.62	128.84	5,657.2	-717.9	891.7	553,581.58	952,263.21	40° 4' 24.490 N	105° 3' 22.263 W	
5,900.0	14.62	128.84	5,753.9	-733.8	911.3	553,576.78	952,269.23	40° 4' 24.333 N	105° 3' 22.010 W	
6,000.0	14.62	128.84	5,850.7	-749.6	931.0	553,571.99	952,275.24	40° 4' 24.177 N	105° 3' 21.757 W	
6,100.0	14.62	128.84	5,947.5	-765.4	950.7	553,567.19	952,281.25	40° 4' 24.021 N	105° 3' 21.504 W	
6,200.0	14.62	128.84	6,044.2	-781.2	970.3	553,562.40	952,287.27	40° 4' 23.864 N	105° 3' 21.252 W	
6,300.0	14.62	128.84	6,141.0	-797.1	990.0	553,557.60	952,293.28	40° 4' 23.708 N	105° 3' 20.999 W	
6,400.0	14.62	128.84	6,237.8	-812.9	1,009.6	553,552.81	952,299.30	40° 4' 23.551 N	105° 3' 20.746 W	
6,421.0	14.62	128.84	6,258.1	-816.2	1,013.7	553,551.80	952,300.56	40° 4' 23.519 N	105° 3' 20.693 W	
6,500.0	13.04	128.84	6,334.8	-828.0	1,028.5	553,548.22	952,305.06	40° 4' 23.402 N	105° 3' 20.504 W	
6,600.0	11.04	128.84	6,432.6	-841.1	1,044.7	553,544.25	952,310.03	40° 4' 23.272 N	105° 3' 20.295 W	
6,700.0	9.04	128.84	6,531.0	-852.0	1,058.3	553,540.94	952,314.18	40° 4' 23.164 N	105° 3' 20.120 W	
6,800.0	7.04	128.84	6,630.1	-860.8	1,069.2	553,538.29	952,317.51	40° 4' 23.078 N	105° 3' 19.980 W	
6,900.0	5.04	128.84	6,729.5	-867.4	1,077.3	553,536.29	952,320.02	40° 4' 23.013 N	105° 3' 19.875 W	
7,000.0	3.04	128.84	6,829.2	-871.8	1,082.8	553,534.95	952,321.70	40° 4' 22.969 N	105° 3' 19.804 W	
7,100.0	1.04	128.84	6,929.2	-874.1	1,085.6	553,534.28	952,322.55	40° 4' 22.947 N	105° 3' 19.769 W	
7,151.8	0.00	128.84	6,981.0	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,200.0	0.00	128.84	7,029.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,300.0	0.00	128.84	7,129.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,400.0	0.00	128.84	7,229.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,500.0	0.00	128.84	7,329.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,551.8	0.00	128.84	7,381.0	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
<b>Niobrara</b>										
7,600.0	0.00	128.84	7,429.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,700.0	0.00	128.84	7,529.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,800.0	0.00	128.84	7,629.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
7,900.0	0.00	128.84	7,729.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,000.0	0.00	128.84	7,829.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,100.0	0.00	128.84	7,929.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,200.0	0.00	128.84	8,029.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,300.0	0.00	128.84	8,129.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,316.8	0.00	128.84	8,146.0	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
<b>J Sand</b>										
8,400.0	0.00	128.84	8,229.2	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
8,466.8	0.00	128.84	8,296.0	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W	
<b>TD - BHL 8-8-1</b>										

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<b>Site:</b>	New Drills 2007	<b>North Reference:</b>	True	
<b>Well:</b>	Bailey 8-8-1	<b>Survey Calculation Method:</b>	Minimum Curvature	
<b>Wellbore:</b>	Directional Plans			
<b>Design:</b>	S Curve #1			

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(m)	(m)		
- Shape									
BHL 8-8-1	0.00	0.00	8,296.0	-874.3	1,086.0	553,534.19	952,322.66	40° 4' 22.944 N	105° 3' 19.764 W
- plan hits target									
- Point									

Formations							
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction		
(ft)	(ft)			(°)	(°)		
4,486.3	4,386.0	Sussex		0.00			
5,080.5	4,961.0	Shannon		0.00			
7,551.8	7,381.0	Niobrara		0.00			
8,316.8	8,146.0	J Sand		0.00			
8,466.8	8,296.0	TD		0.00			